

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 252035US0DIV		SERIAL NO. 10/827,376	
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> OIP AUG 27 2004 PATENT & TRADEMARK OFFICE </div>				APPLICANT Nozomu TAMOTO, et al.			
				FILING DATE April 20, 2004		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
✓	AA	3,736,134	5/29/73	D.W. GOSSELINK, et al.			
	AB	4,820,620	4/11/89	D.J. CAROLLA			
	AC	6,030,733	2/29/00	KAMI, et al.			
	AD	6,136,483	10/24/00	SUZUKI, et al.			
	AE	6,026,262	2/15/00	KINOSHITA, et al.			
	AF	6,093,784	7/25/00	TAMURA, et al.			
	AG	5,747,204	5/5/98	ANZAI, et al.			
	AH	6,027,846	2/22/00	SHIMADA, et al.			
	AI	5,840,454	11/24/98	NAGAI, et al.			
	AJ	5,723,243	3/3/98	SASAKI, et al.			
	AK	5,942,363	8/24/99	TANAKA, et al.			
	AL	5,789,128	8/4/98	ADACHI, et al.			
	AM	5,846,680	12/8/98	ADACHI, et al.			
✓	AN	6,030,736	2/29/00	IKEGAMI, et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
✓	AO	4-295855	10/20/92	JAPAN w/English Abstract			
	AP	8-292585	11/5/96	JAPAN			
	AQ	9-281718	10/31/97	JAPAN w/English Abstract			
	AR	2000-66434	3/3/00	JAPAN w/English Abstract			
	AS	43-16198	7/8/68	JAPAN w/Partial English Translation			
	AT	44-834	1/16/69	JAPAN w/Partial English Translation			
	AU	49-10258	3/9/74	JAPAN w/Partial English Translation			
	AV	53-13344	11/31/78	JAPAN w/English Abstract			
	AW	04240656A	08/2792	JAPAN			
✓	AX	2000352832A	1219//00	JAPAN			
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AY	Derwent Abstracts, AN 1992-336267, JP 04-240656, August 27, 1992.					
	AZ					<input type="checkbox"/> Additional References sheet(s) attached	
Examiner <i>Unchey R. Jones</i>					Date Considered <i>2-14-05</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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				FILING DATE April 20, 2004		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
✓	AAA	6,045,959	4/4/00	KATAYAMA, et al.			
	AAB	6,066,428	5/23/00	KATAYAMA, et al.			
	AAC	5,976,746	11/2/99	TAMAKA, et al.			
	AAD	6,468,706	10/22/02	MATSUDA, et al.			
	AAE	6,406,826	6/18/02	SUZUKI, et al.			
	AAF	6,322,940	11/27/01	NISHIGAKI, et al.			
	AAG	5,028,502	7/2/91	YUH, et al.			
	AAH	5,100,453	3/31/92	RICHARDS			
	AAI	6,249,304	6/19/01	SAWAYAMA, et al.			
	AAJ	5,834,145	11/10/98	YOSHINAGA, et al.			
	AAK	6,366,751	4/2/02	SHAKUTO, et al.			
	AAL	5,999,773	12/7/99	YASUTOMI, et al.			
	AAM	5,928,828	7/27/99	SUZUKI			
	AAN	5,910,561	6/8/99	ADACHI, et al.			
	FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO			
✓	AAO	55-15774	12/8/80	JAPAN w/English Abstract			
	AAP	57-30846	2/19/82	JAPAN w/English Abstract			
	AAQ	2-4275	1/9/90	JAPAN w/English Abstract			
	AAR	4-281461	10/7/92	JAPAN w/English Abstract			
	AAS	0 655 654	5/31/95	EUROPE			
	AAT	4-240656	08/27/92	Japan (English Translation)			
AAU							
AAV							
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW						
	AX						
	AY						
	AZ					<input type="checkbox"/> Additional References sheet(s) attached	
Examiner <i>W. R. Robin</i>				Date Considered <i>2-14-05</i>			
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✓	AAAA	6,069,224	5/30/00	ADACHI, et al.			
	AAAB	6,191,249	02/20/01	TANAKA, et al.			
	AAAC	6,432,596	08/13/02	IKUNO, et al.			
	AAAD	6,319,878	11/20/01	INA, et al.			
	AAAE	5,702,855	12/30/97	IKEGAMI, et al.			
	AAAF	5,578,405	11/26/96	IKEGAMI, et al.			
	AAAG	5,339,138	08/16/94	MISHIMA, et al.			
	AAAH	5,496,671	03/05/96	TAMURA, et al.			
	AAAI	5,411,827	05/02/95	TAMURA, et al.			
	AAAJ	4,942,104	07/17/90	KITAJIMA, et al.			
	AAAK	4,740,441	04/26/88	OTOMURA			
	AAAL	6,187,494	02/13/01	KAWAMURA, et al.			
	AAAM	6,187,492	02/13/01	RI, et al.			
	AAAN	6,210,848	04/03/01	NAGAI, et al.			
	AAA0	4,888,262	12/19/89	TAMAKI et al			
✓	AAAP	4,608,090	08/26/86	KERESZTESSY née BADI et al			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AAAO						
	AAAP						
	AAAQ						
	AAAR						
	AAAS						
	AAAT						
	AAAU						
	AAAV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AAAW						
	AAAX						
	AAAY						
	AAAZ					<input type="checkbox"/> Additional References sheet(s) attached	
Examiner <i>Victoria Roberts</i>					Date Considered <i>2-14-05</i>		
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<div style="font-size: 2em; margin-bottom: 10px;">✓</div> <div style="font-size: 2em;">✓</div>	AAB	6,326,112	12/4/01	TAMURA, et al.			
	ABB	6,444,387	9/3/02	RI, et al.			
	ACB	6,132,911	10/17/00	NIIMI			
	ADB	6,218,533	4/17/01	NIIMI			
	AEB	5,547,790	8/20/96	UMEDA, et al.			
	AFB	5,677,094	10/14/97	UMEDA, et al.			
	AGB	5,804,343	9/8/98	UMEDA, et al.			
	AHB	5,871,876	2/16/99	IKUNO, et al.			
	AIB	6,087,055	7/11/00	NIIMI			
	AJB	5,853,935	12/29/98	SUZUKI, et al.			
	AKB	6,118,964	9/00	KOJIMA, et al.			
	ALB	5,948,579	9/99	MASHIMO, et al.			
	AMB	4,663,259	05/05/87	FUJIMURA, et al.			
	ANB	4,766,048	08/23/88	HISAMUA, Masafumi			
	AOB	5,008,172	04/16/91	ROKUTANZONO, et al.			
	APB	6,300,027	1009/01	CHAMBERS, et al.			
	AQB	6,492,081	12/10/02	MORIKAWA, et al.			
	ARB	2002/0048711	4/02	ITO, et al.			
	ASB	5,679,488	10/21/97	ITAMI, et al.			
	ATB	5,932,381	08/03/99	AKAO, et al.			
AUB	2002/0011177	1/02	YAMAMORI, et al.				
AVB	6,077,635	06/20/00	OKADO, et al.				
AWB	6,243,552	08/05/01	MURATA, Jun				
AXB	5,008,706	04/16/91	OHMORI, et al.				
AYB	5,363,176	11/08/94	ISHIHARA, et al.				
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AY						
	AZ						
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